

Specification for Fully automatic and unattended Fiber extraction system (NDF,ADF,Lignin) with hot and cold extraction system by crucible method.

Fully automatic -Crude Fiber estimation system

Application : Fibre determinations according to Weende, van Soest, etc. Single or sequential extractions including

boiling, using externally preheated reagents, rinsing and filtration are performed under reproducible and controlled conditions. Should be able to determine Crude Fibre (acc. to Weende). • Neutral Detergent Fibre. • Acid Detergent Fibre. • Acid Detergent Lignin.

Six samples should be processed simultaneously.

Accessories for batch handling should be provided .

Machine should have Integral extraction and filtration.

No sample transfer and no loss of sample.

Machine should automatically heat and add all the reagents .

Overnight unattended operation should be possible.

User involvement for extraction should not be more than 3 minutes with the machine.

Separate unit for solvent dehydration, lignin determination and defatting.

Official approval: ISO 6865, 92/89 EEC and AOAC 2002.04 (feed).

Extensive application service and application notes should be provided whenever required.

Few application notes following AOAC methods for different samples should be enclosed with the bid

Sample size: 0.5 - 3 g

Measuring range: 0.1 - 100%

Repeatability: < 1% relative at 5 - 30 % fibre level

Accuracy: According to official methods

Capacity per batch: 6 samples simultaneously

Capacity per day: Up to 36 analyses (Crude Fibre method acc. to Weende) per day

Hot Extraction Unit comprising: Hot Extractor, Reflector, Reagent Bottles, Hot Water Sprayer, Beaker, Funnel, Water Suction Pump, Antifoaming Agent, Tubing, Holder for 6 crucibles, Stand for 6 crucibles, Crucibles (P2 standard, 2 sets of 6), Manual.

Cold Extraction Unit comprising: Cold Extractor, Spray Bottle, Tubing, T-tube, Spare Part Kit, Stand for 6 crucibles, Crucibles (P2 standard 40 - 100 µm, set of 6), Antifoaming Agent (octanol), Celite, 1 l

“Sample preparation mill : sample preparation mill with cyclone technique should be supplied from the same manufacturer for preparation of homogeneous sample of 0.5 mm,1 mm ,2mm size.sufficient sieves and 50 collection bottles with caps should be supplied”